

WHAT IS CLAIMED IS:

1. A method for forming a film, said method comprising the steps of:
introducing a reactive gas into a reaction chamber;
supplying a pulsed electromagnetic energy having a high frequency
5 to said reactive gas sufficient to convert said reactive gas into a plasma; and
forming the film on a surface of an object,
wherein a photo energy is applied to said reactive gas during said
pulsed electromagnetic energy to maintain an activated state of said plasma.